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Figure 1

Title: REAL TIME MEASUREMENT OF CELLULAR RESPONSES
First Inventor: Ping JIANG
Application No. :10/643,785
Docket No.: 312762003800

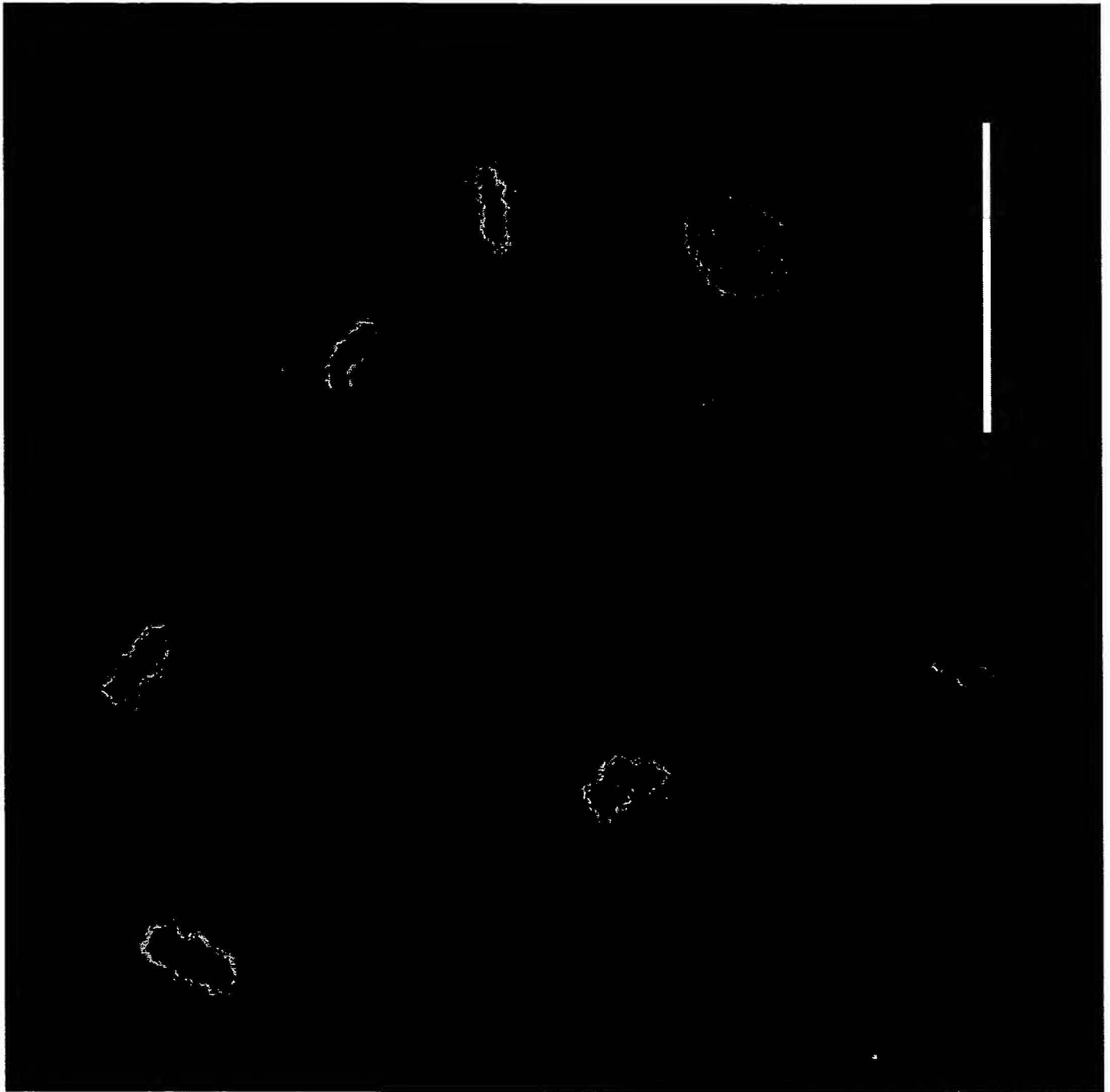


Figure 2

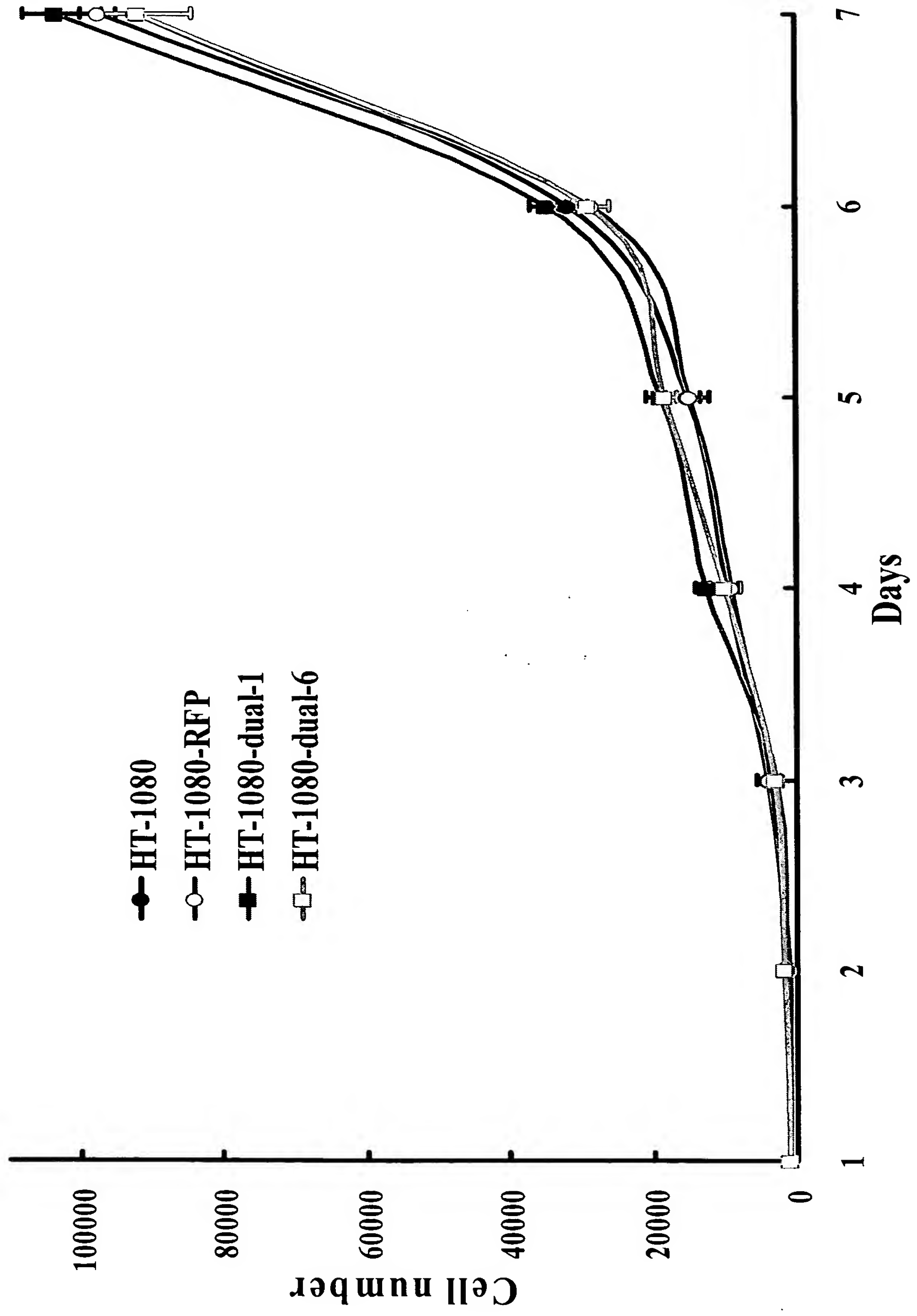


Figure 3A

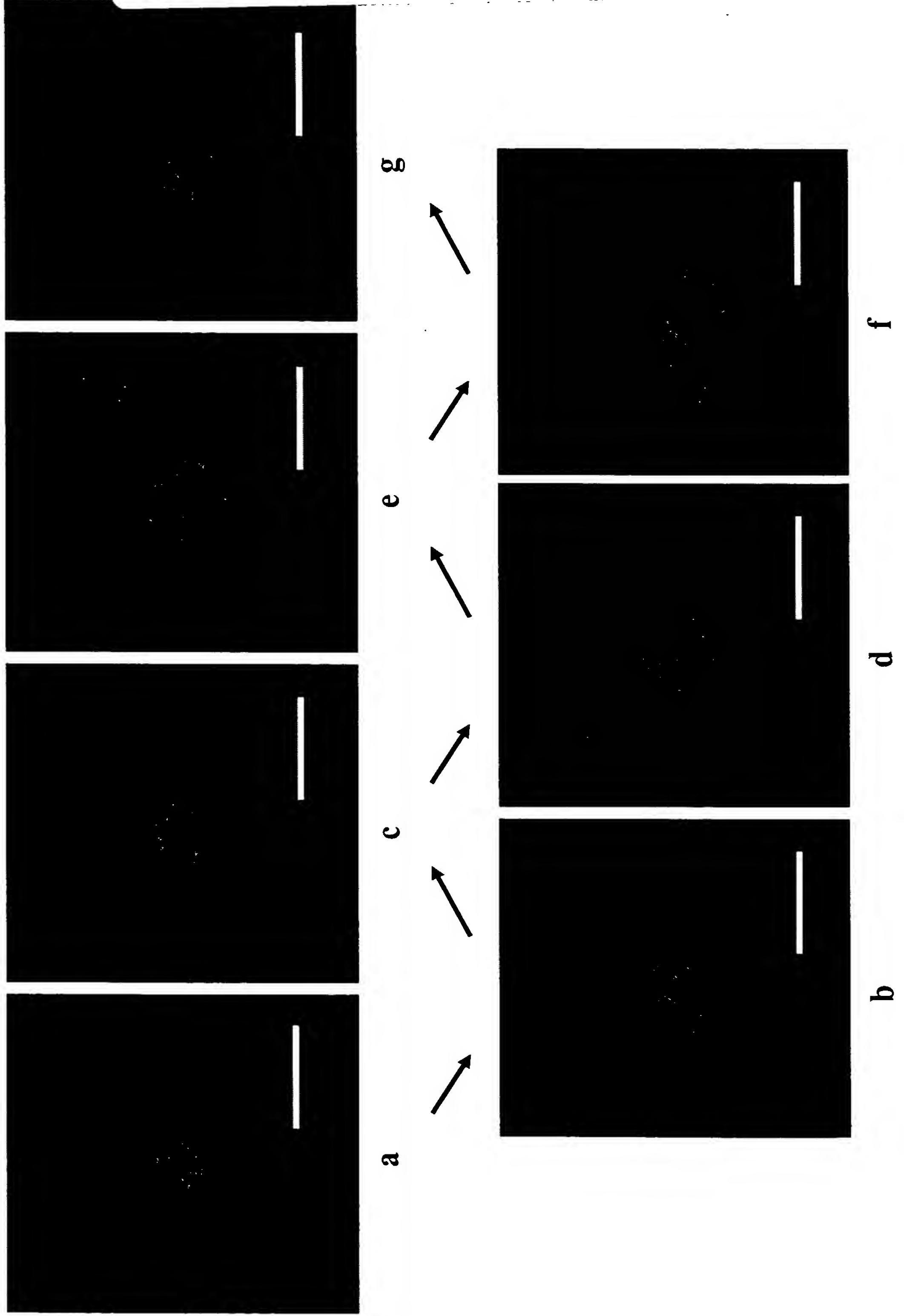
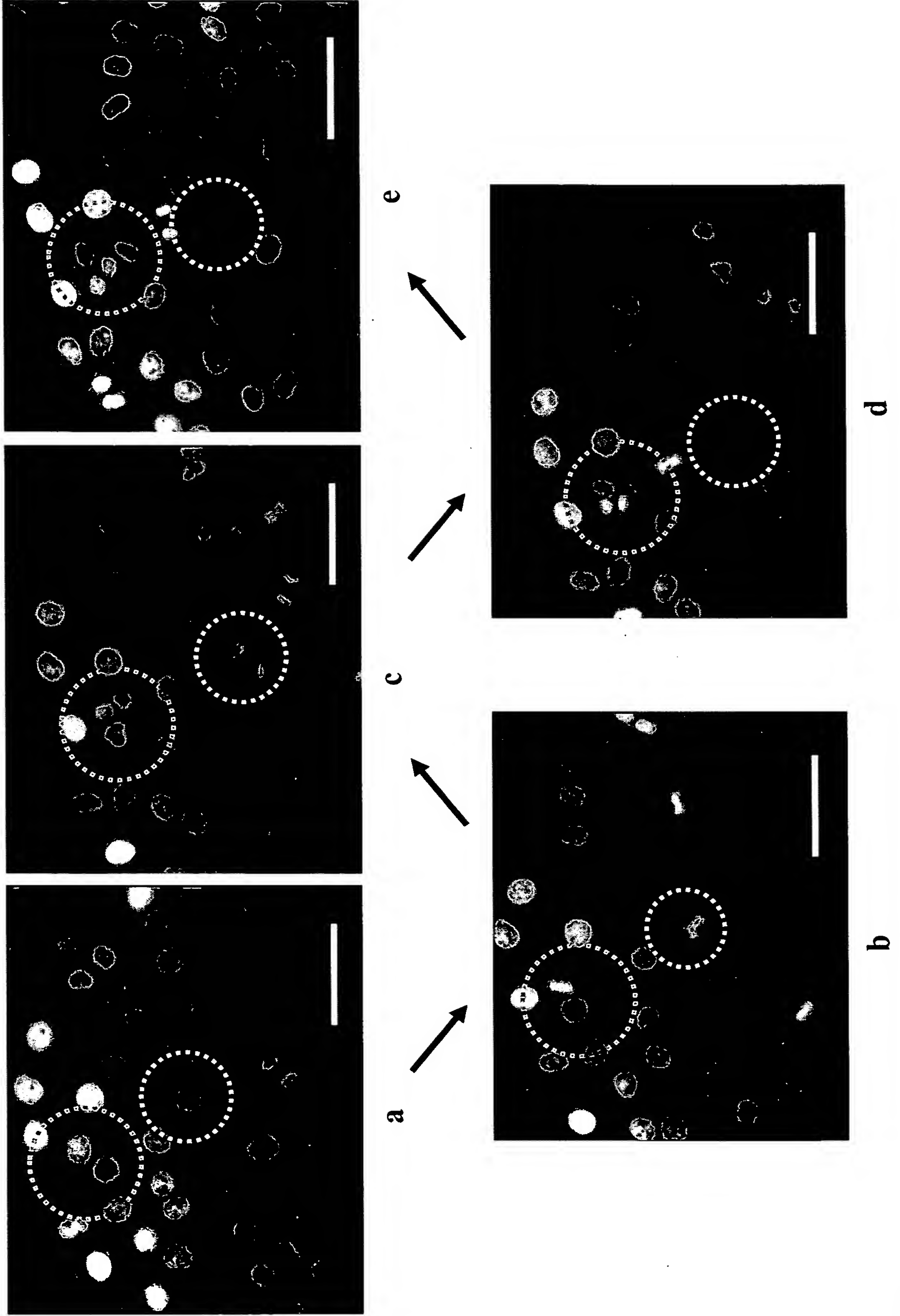


Figure 3B



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Figure 4A

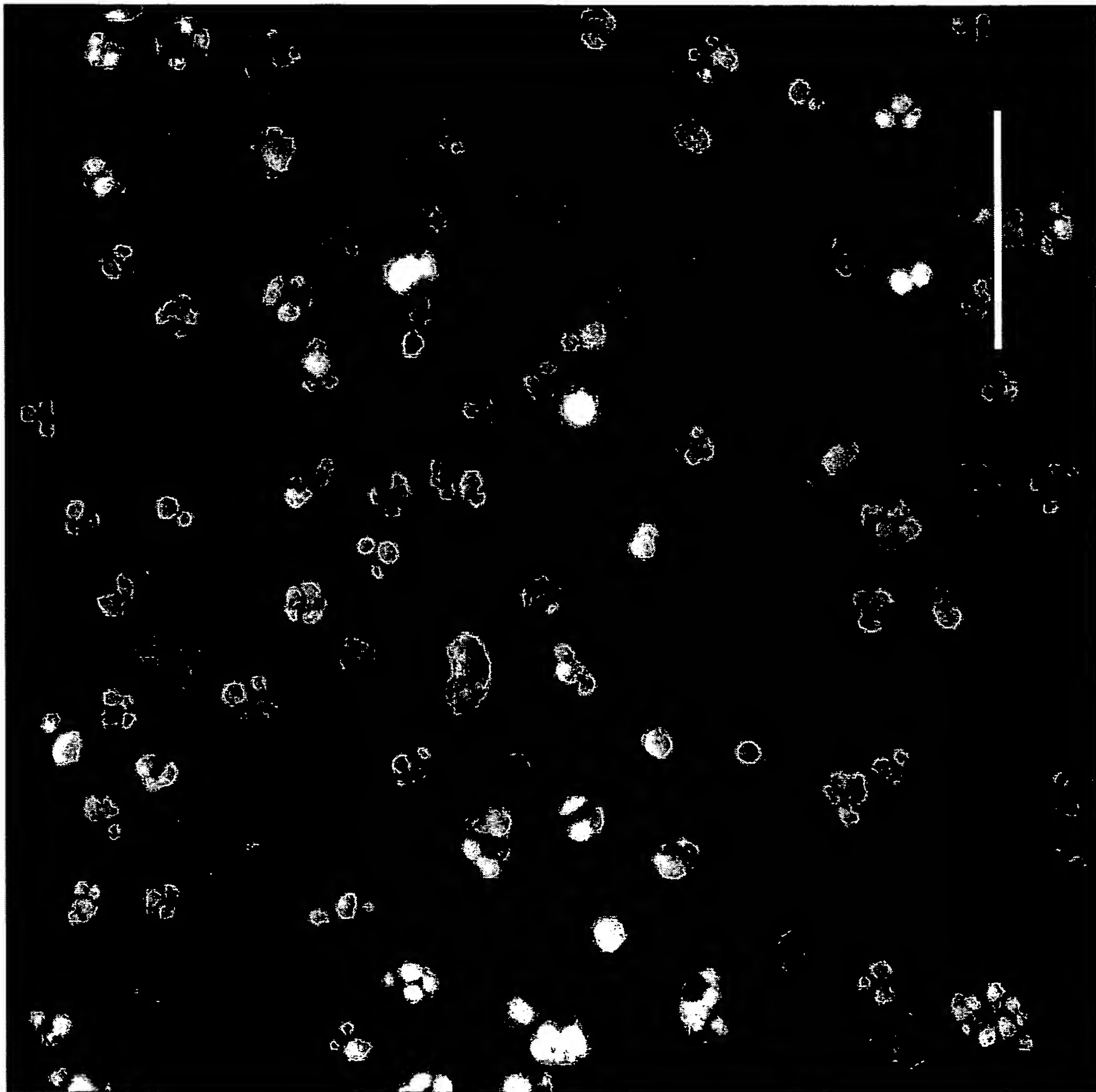
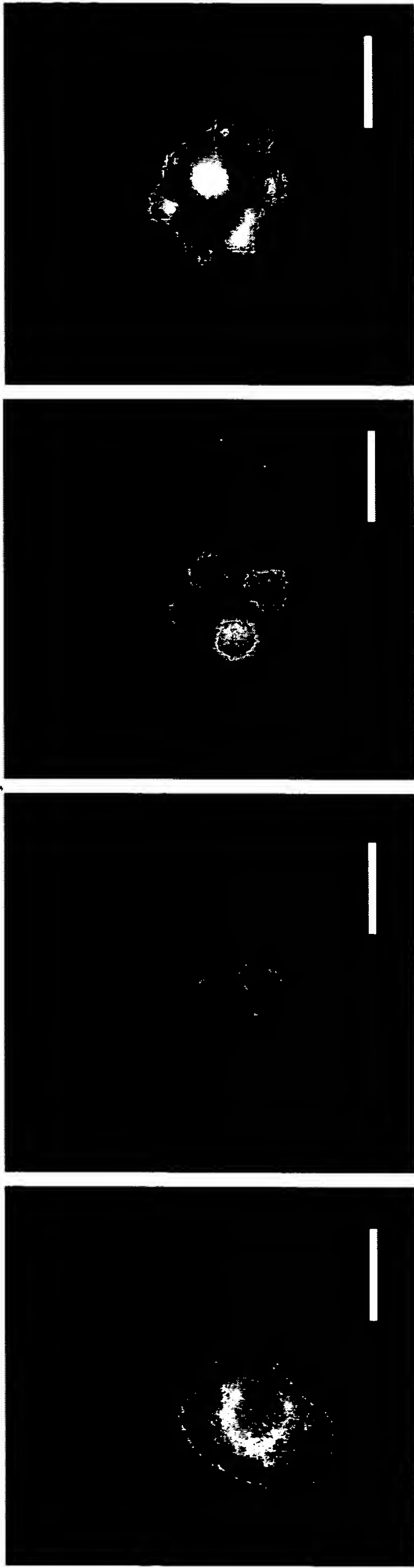


Figure 4B

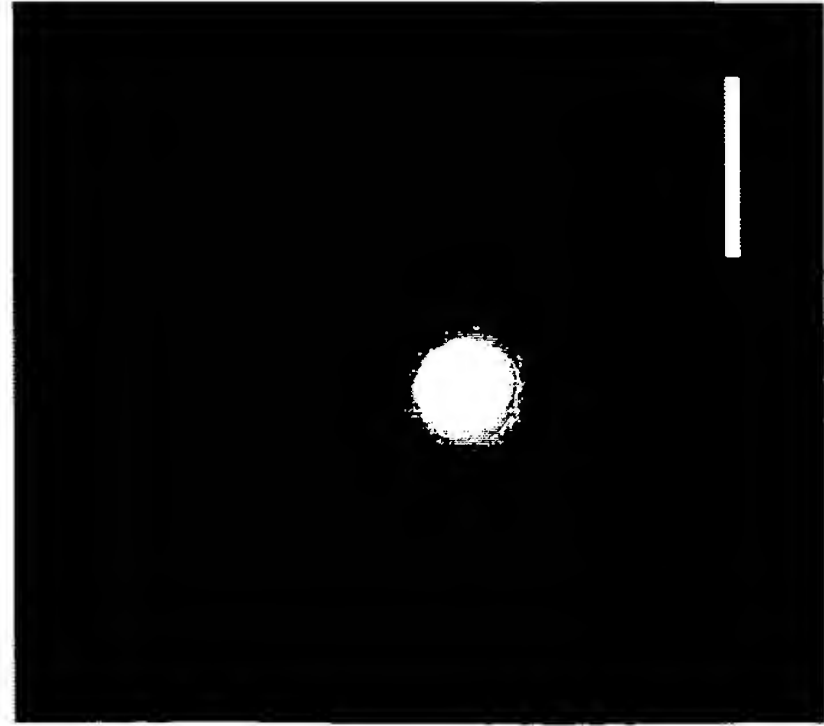


a

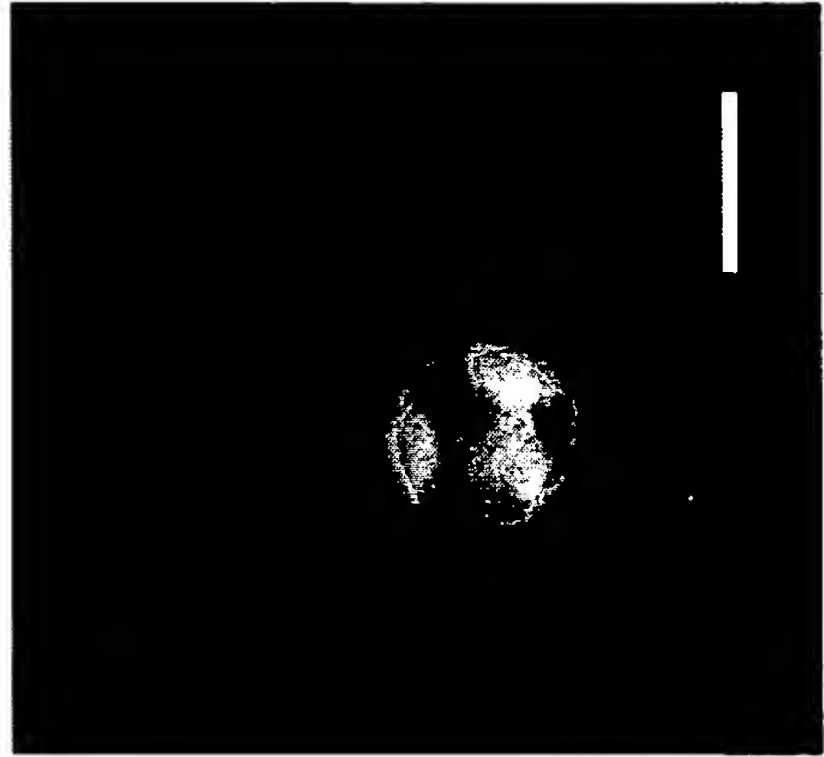
c

e

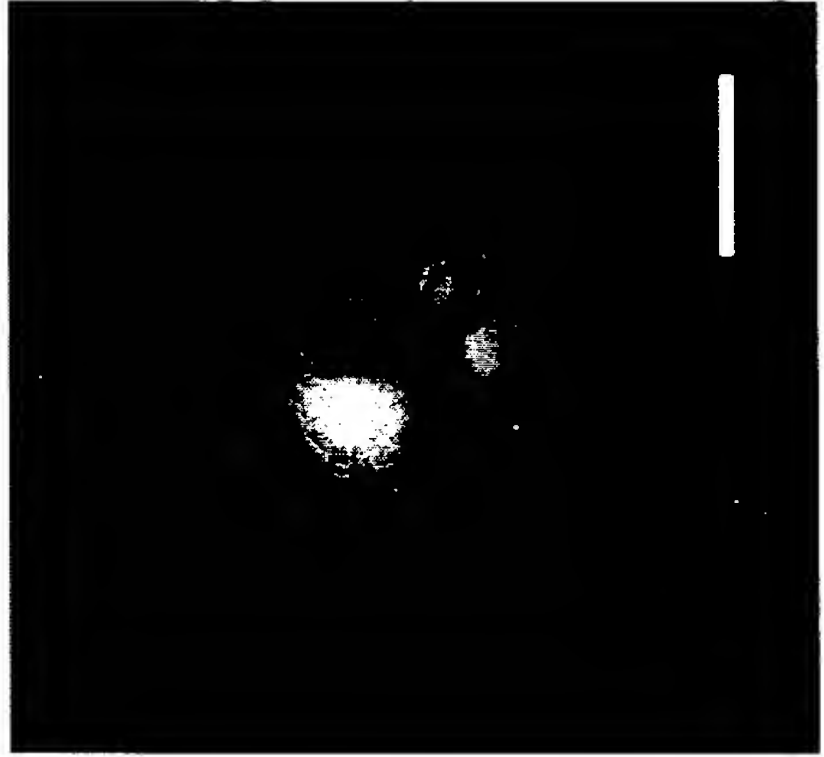
g



b



d



f

Figure 5

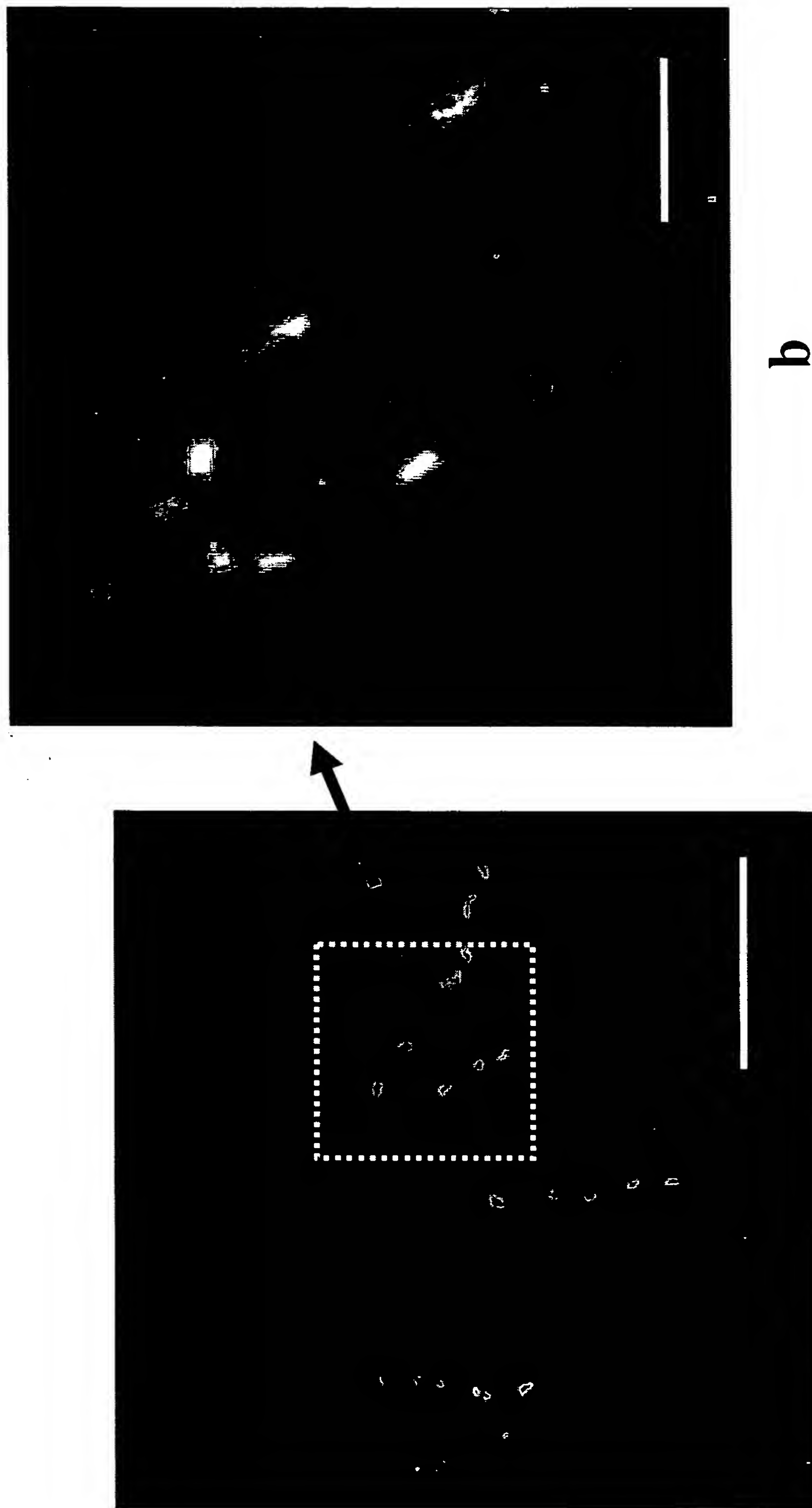
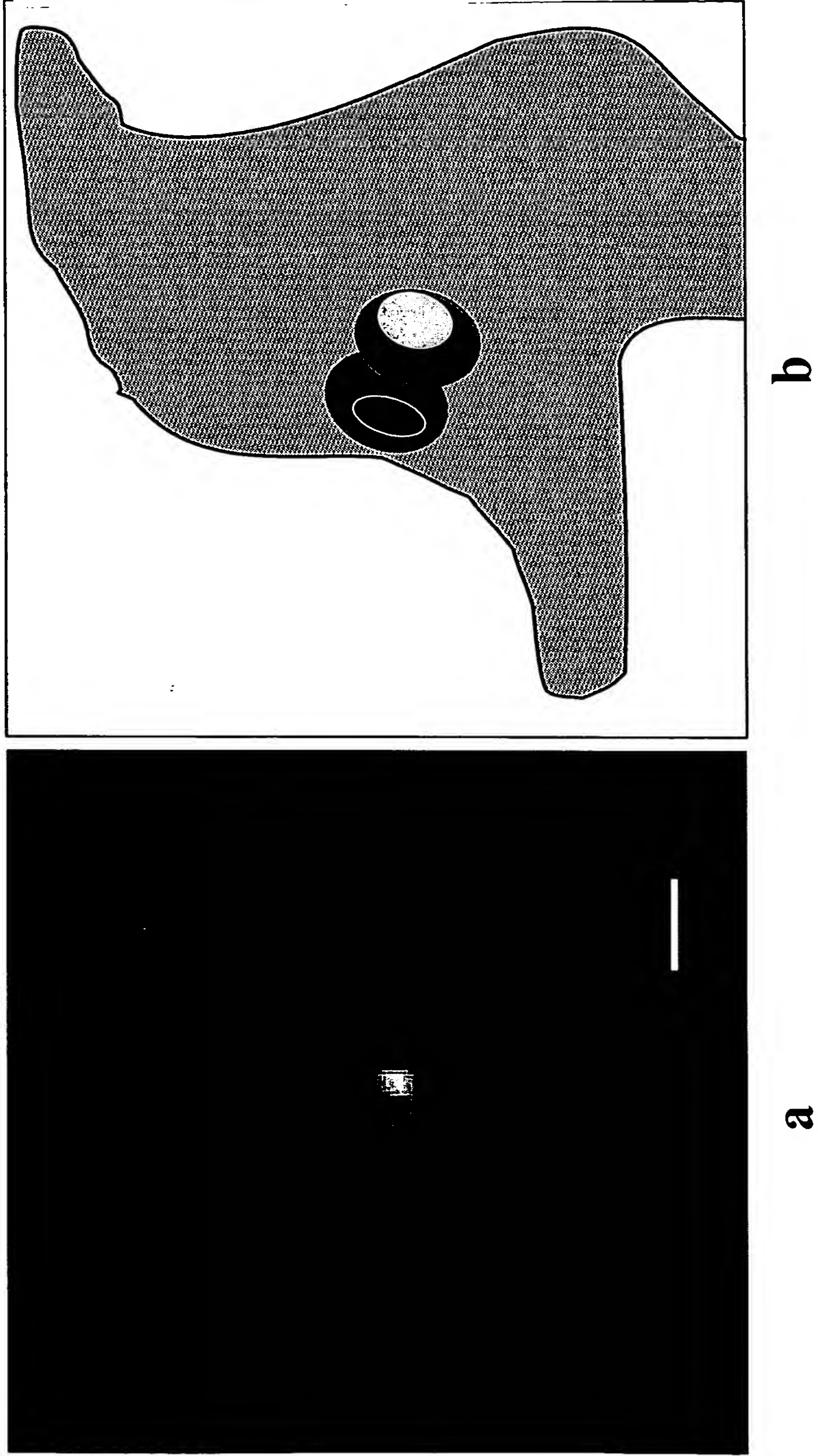


Figure 6



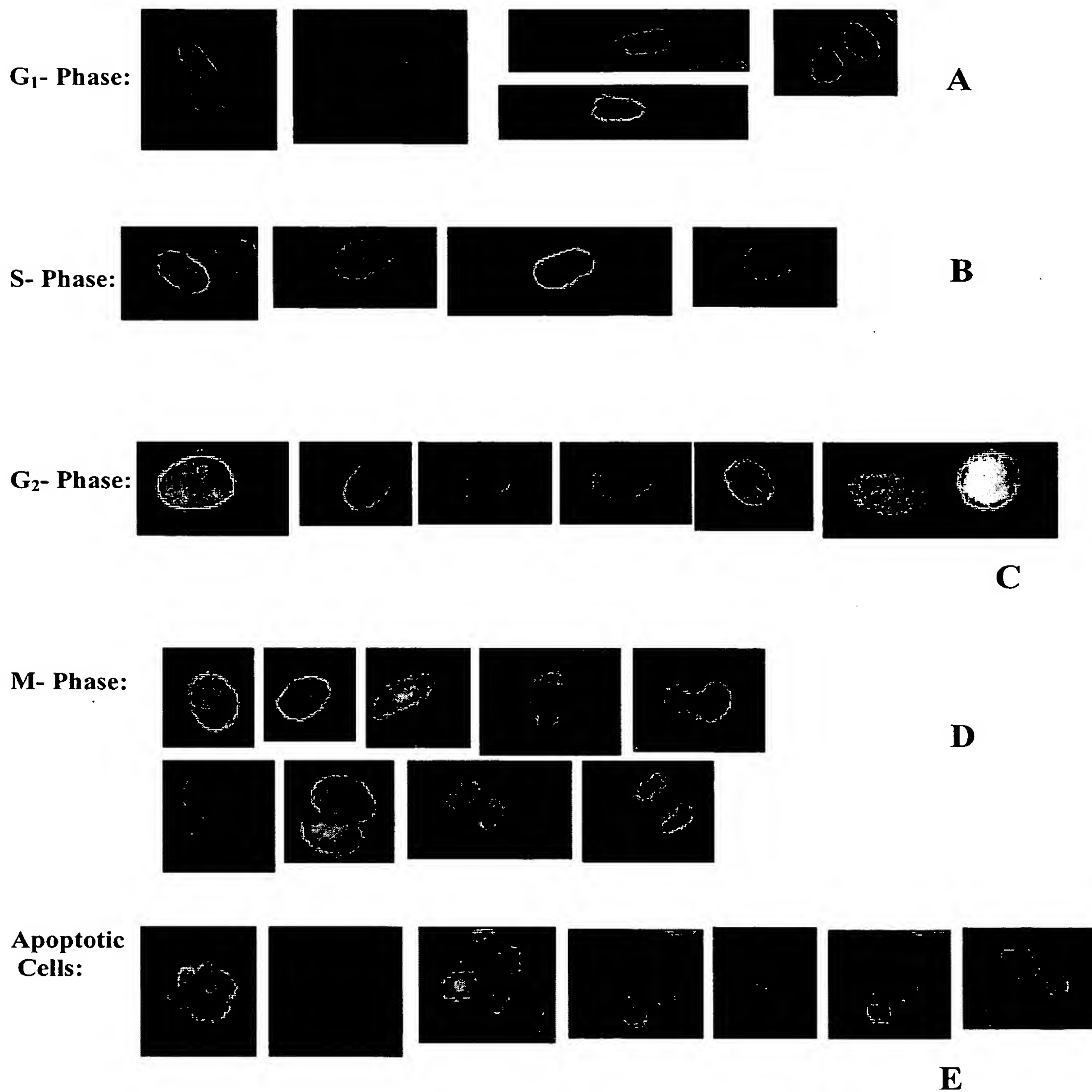
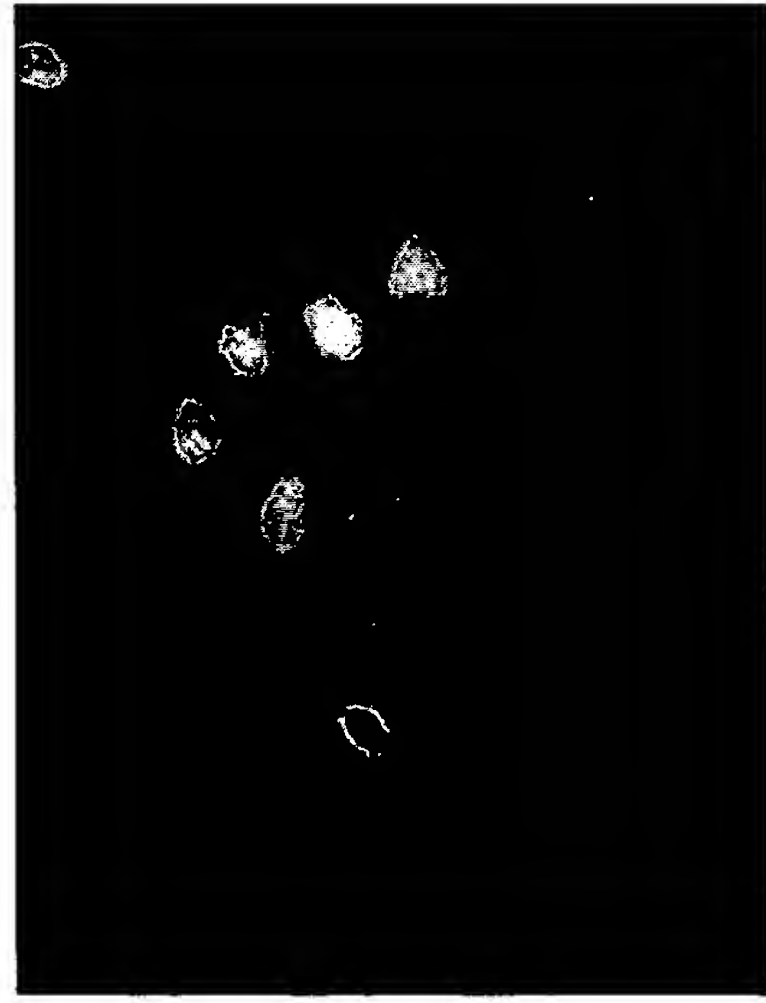


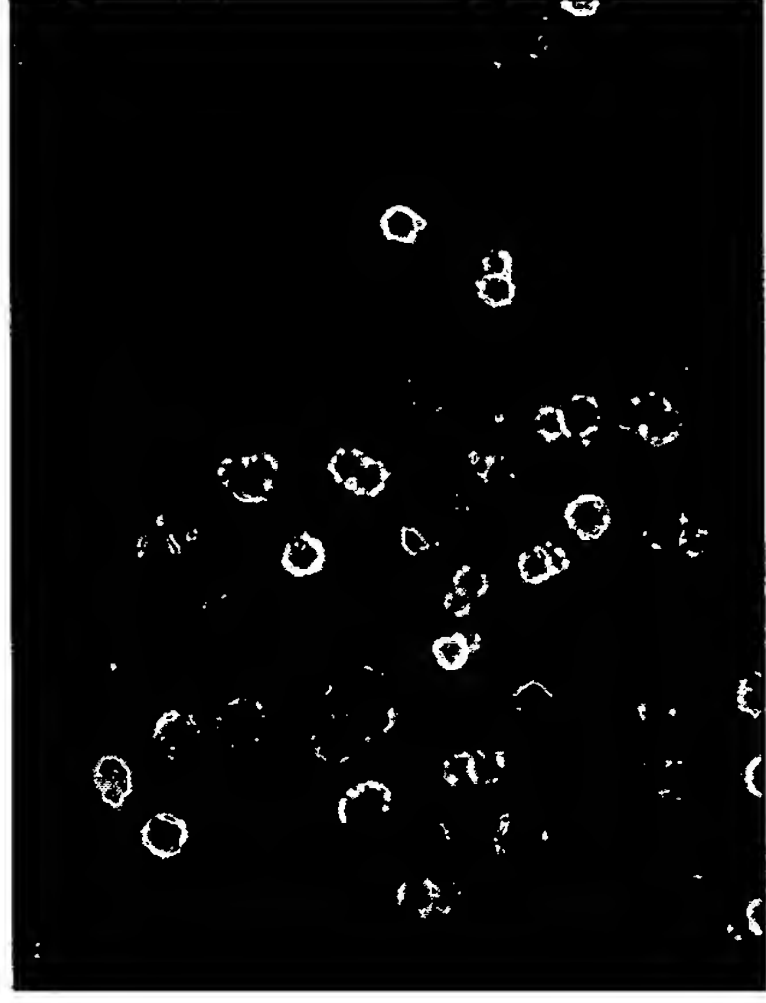
Figure 7

Figure 8

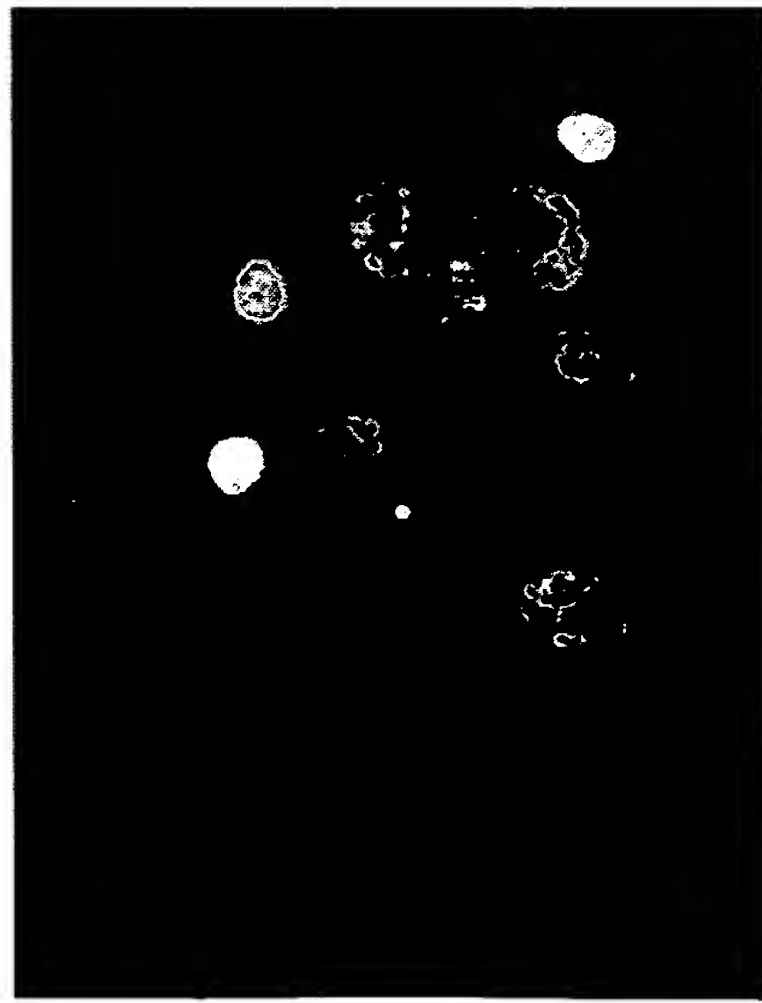
PC-3 Dual Cells were treated by Taxol (0.8 $\mu\text{g/ml}$)



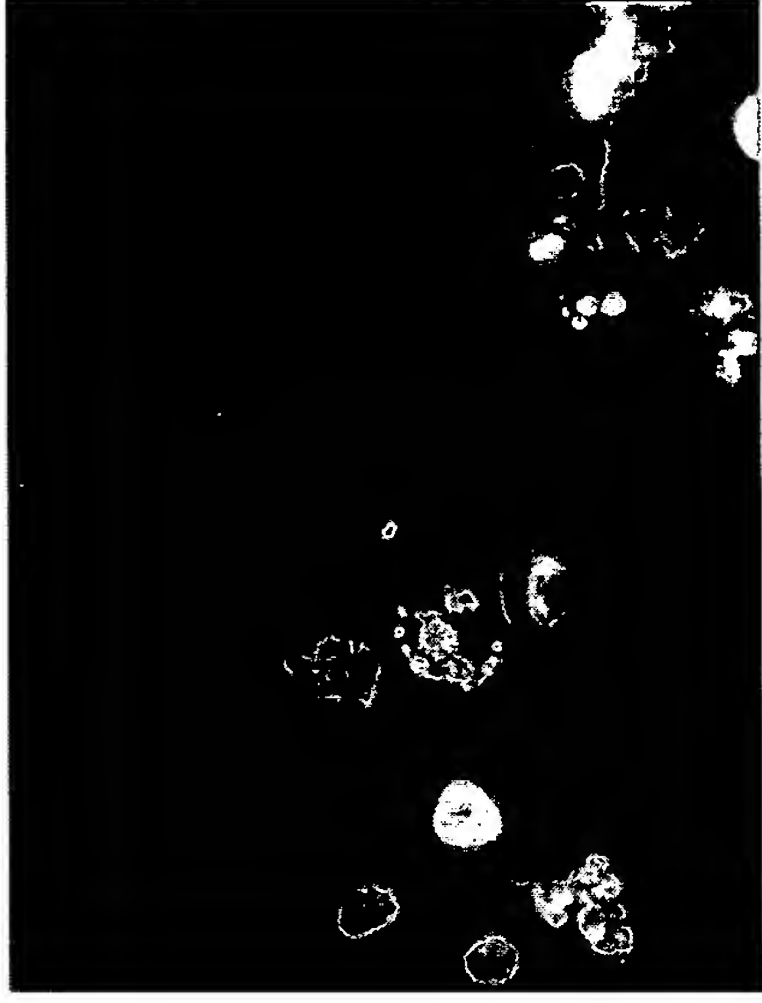
T0 (Magnification:200x)



T24 (Magnification:200x)



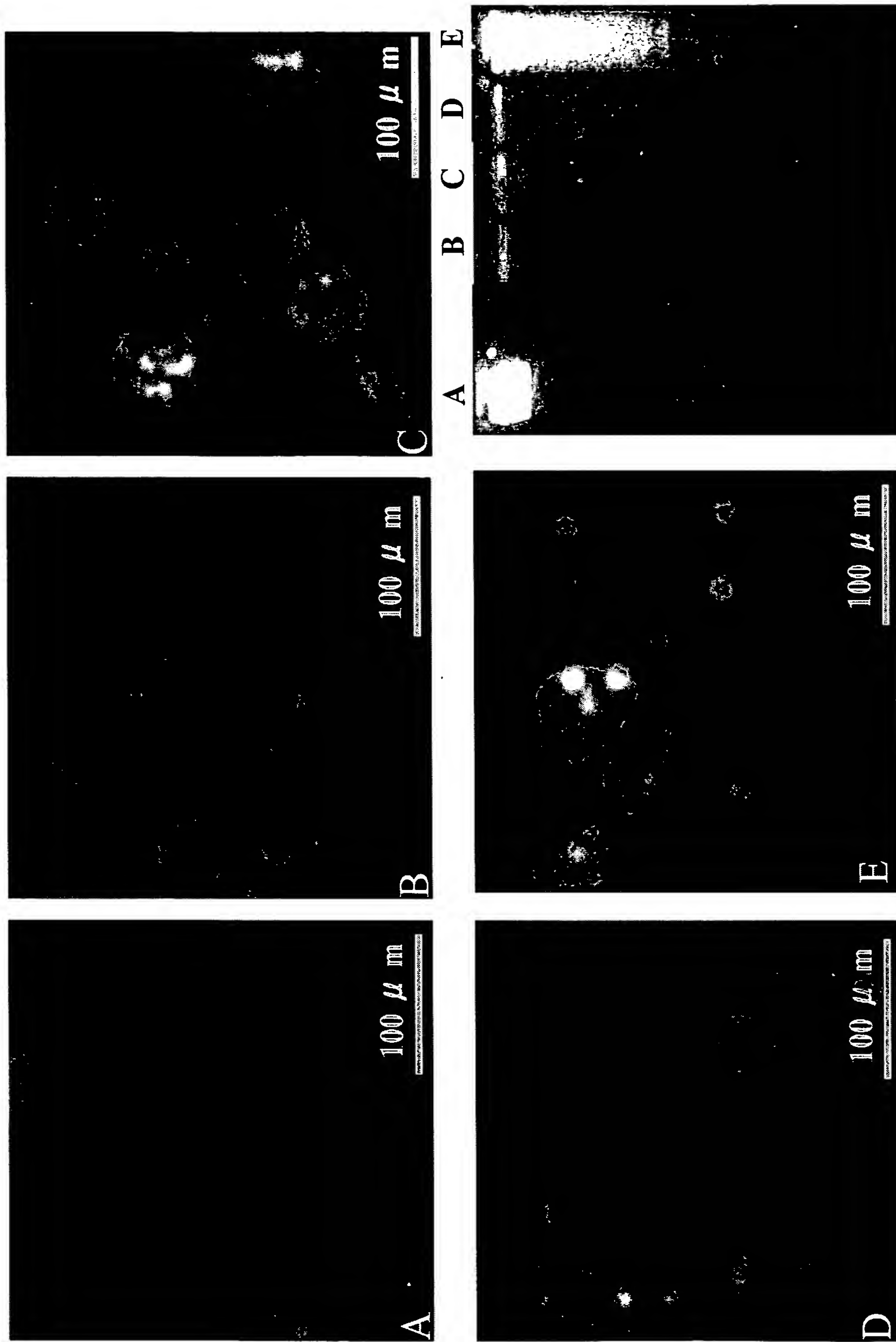
T48 (Magnification:200x)



T96 (Magnification:200x)

Figure 9

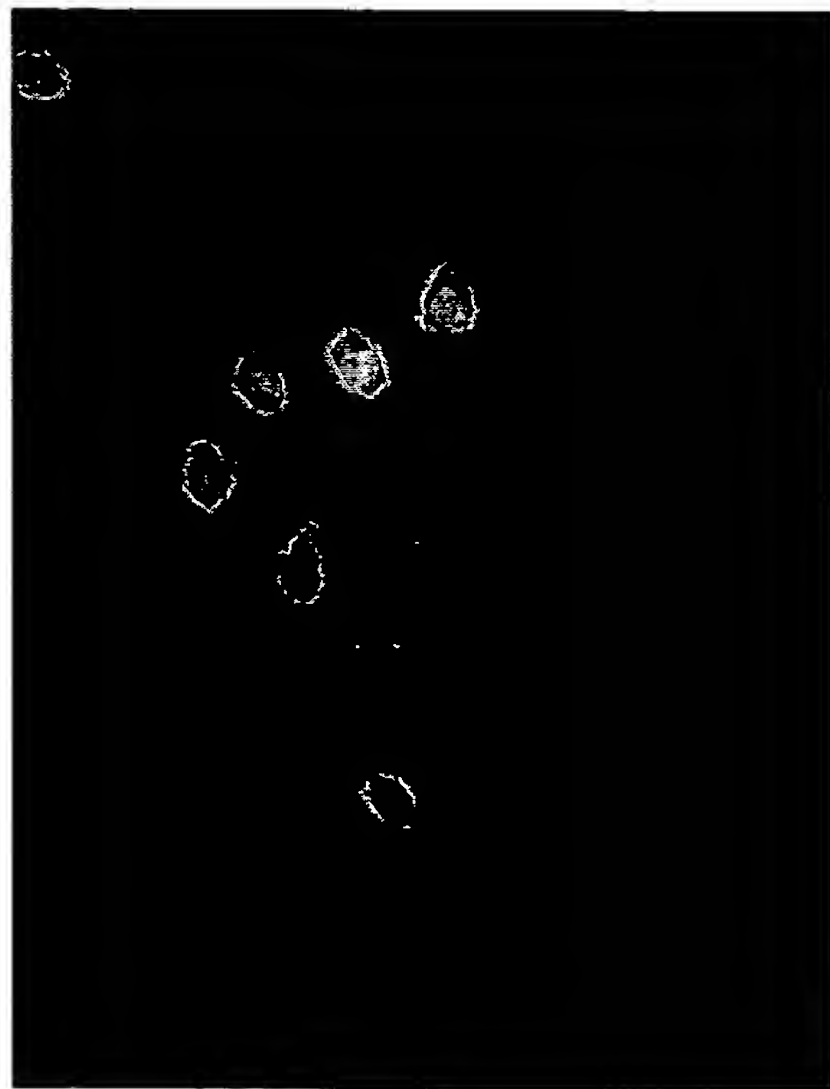
Visualizing taxol induced apoptotic cells in vitro in real time



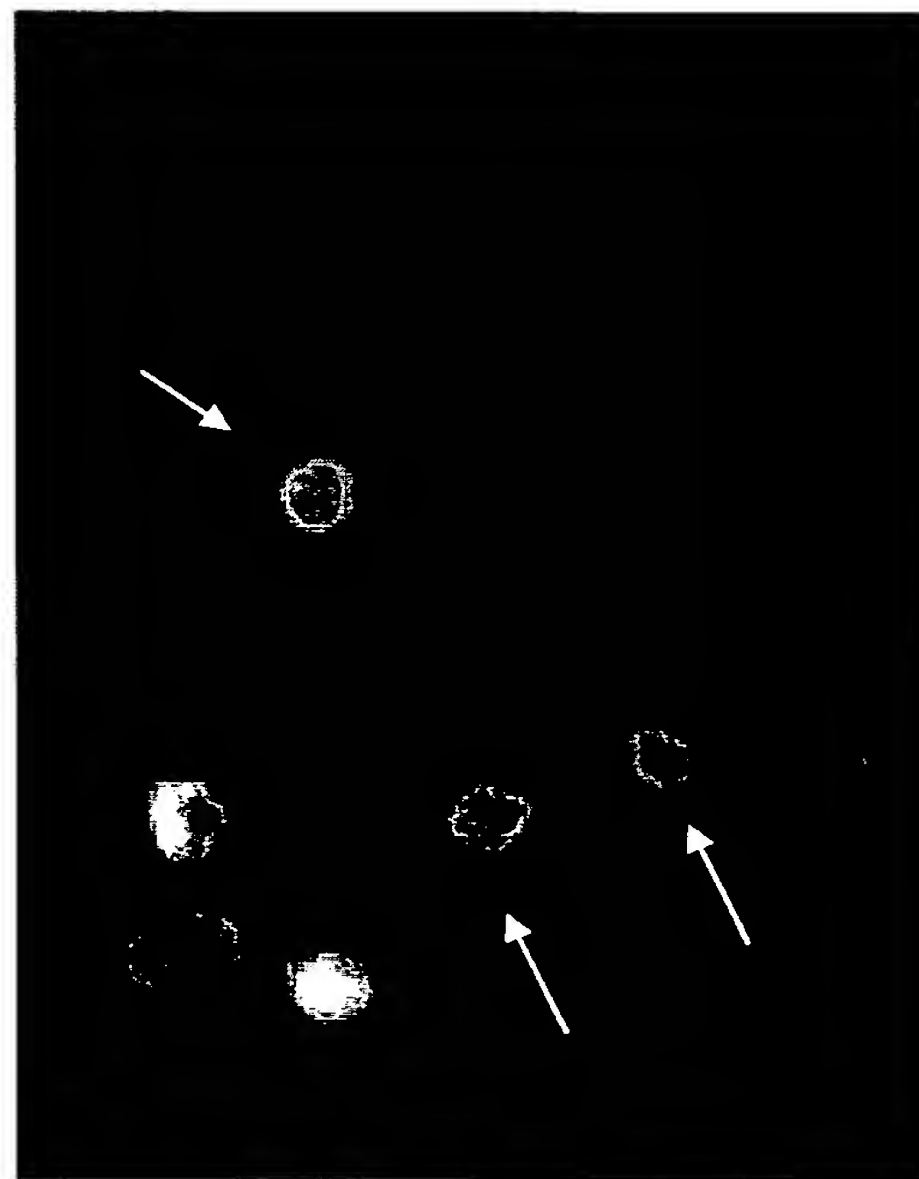
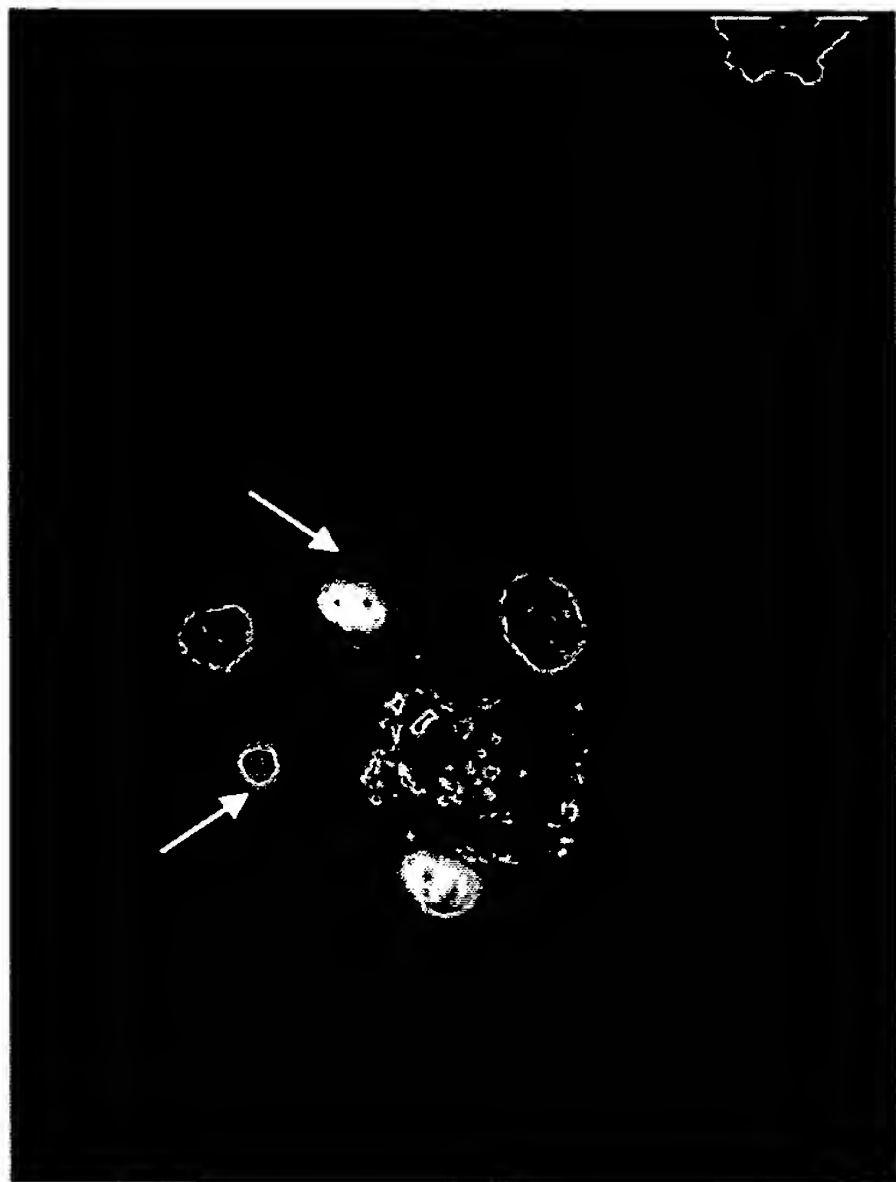
Real-time apoptoses were observed under fluorescence microscopy and verified by DNA ladder analysis when PC-3-dual cells were incubated with 0.8 μ g Taxol. (A) control; (B) 12 hours after treatment; (C) 24 hours after treatment; (D) 36 hours after treatment; (E) 48 hours after treatment.

Figure 10

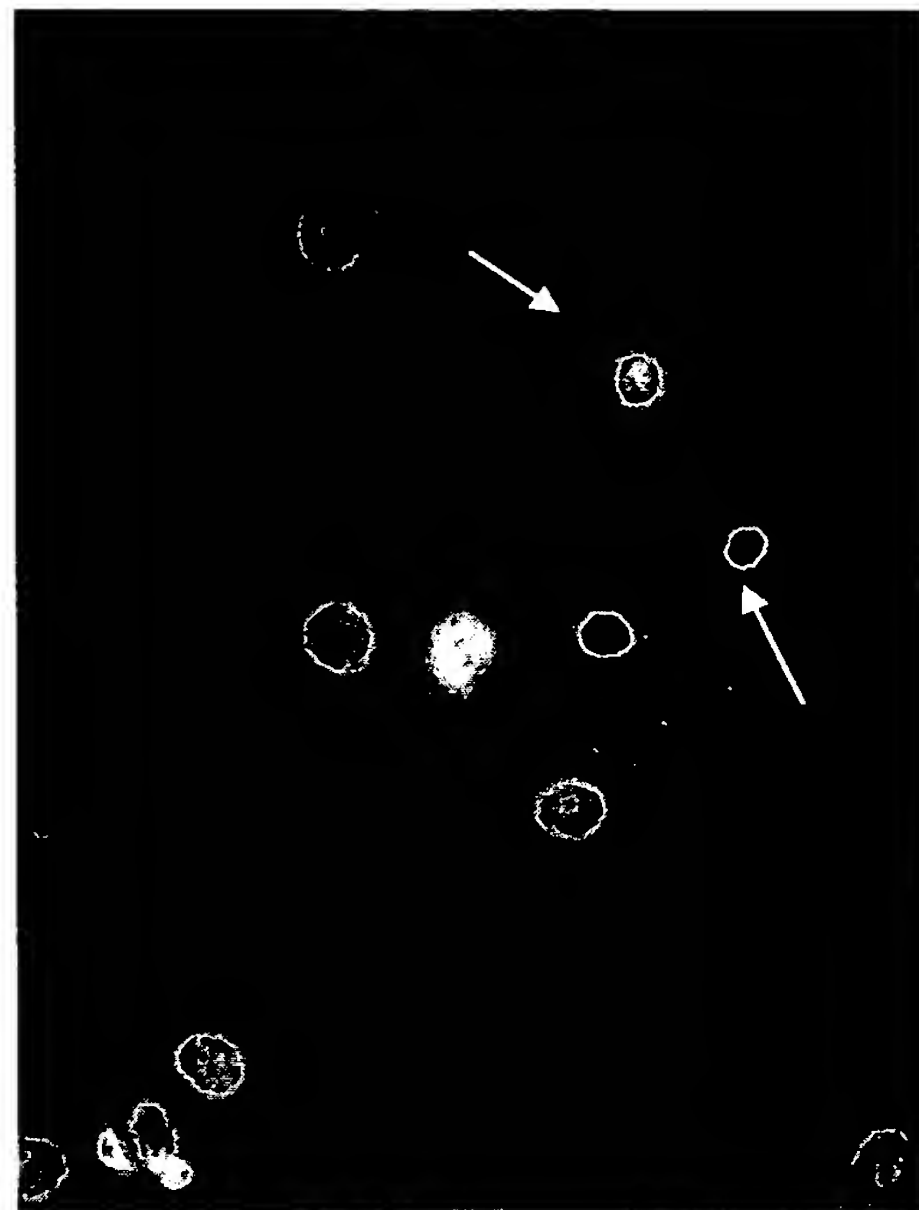
PC-3 Dual Cells were treated by Vinblastin (62 μ g/ml)



T0 (Magnification: 200x)



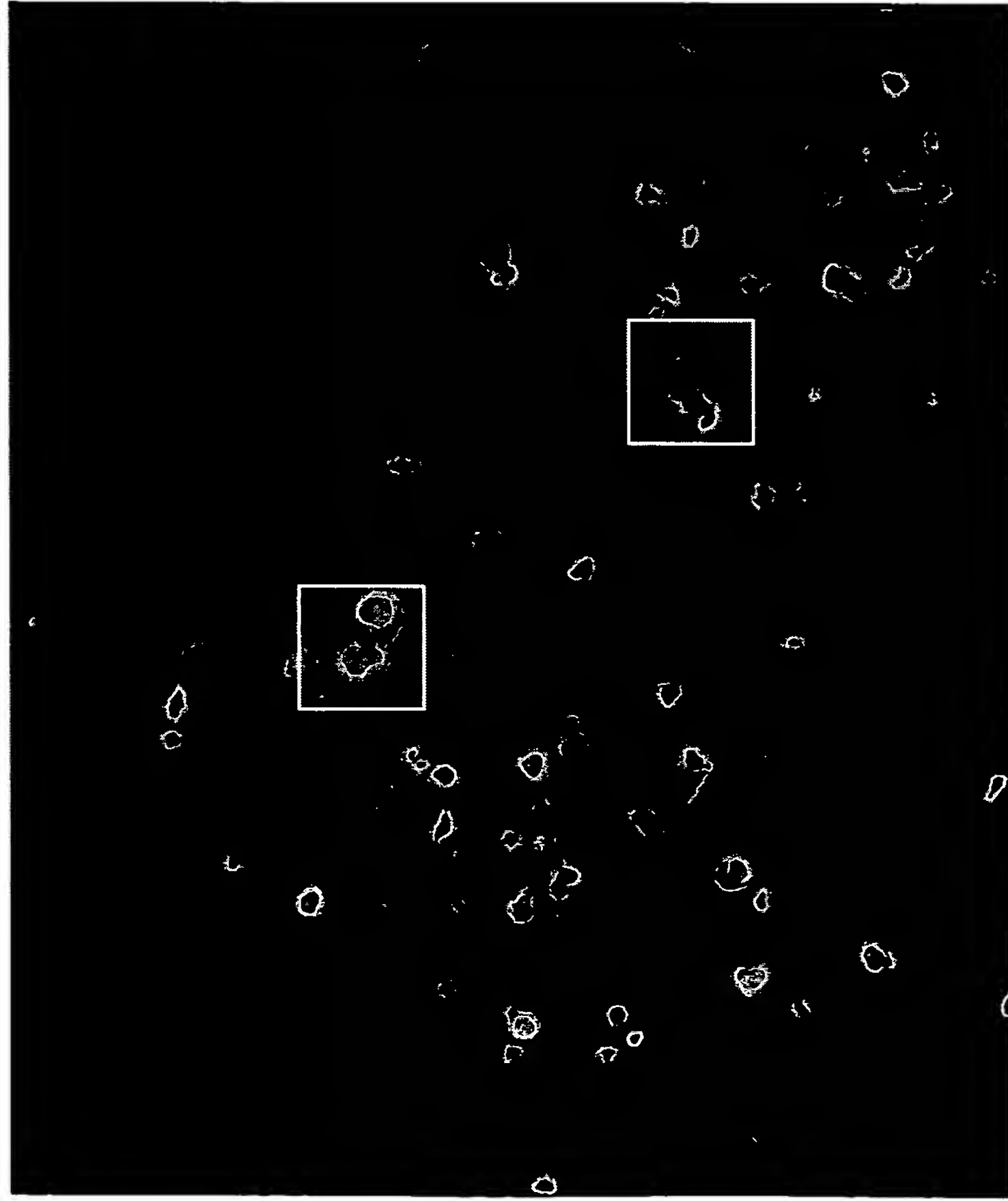
T48 (Magnification: 200x)



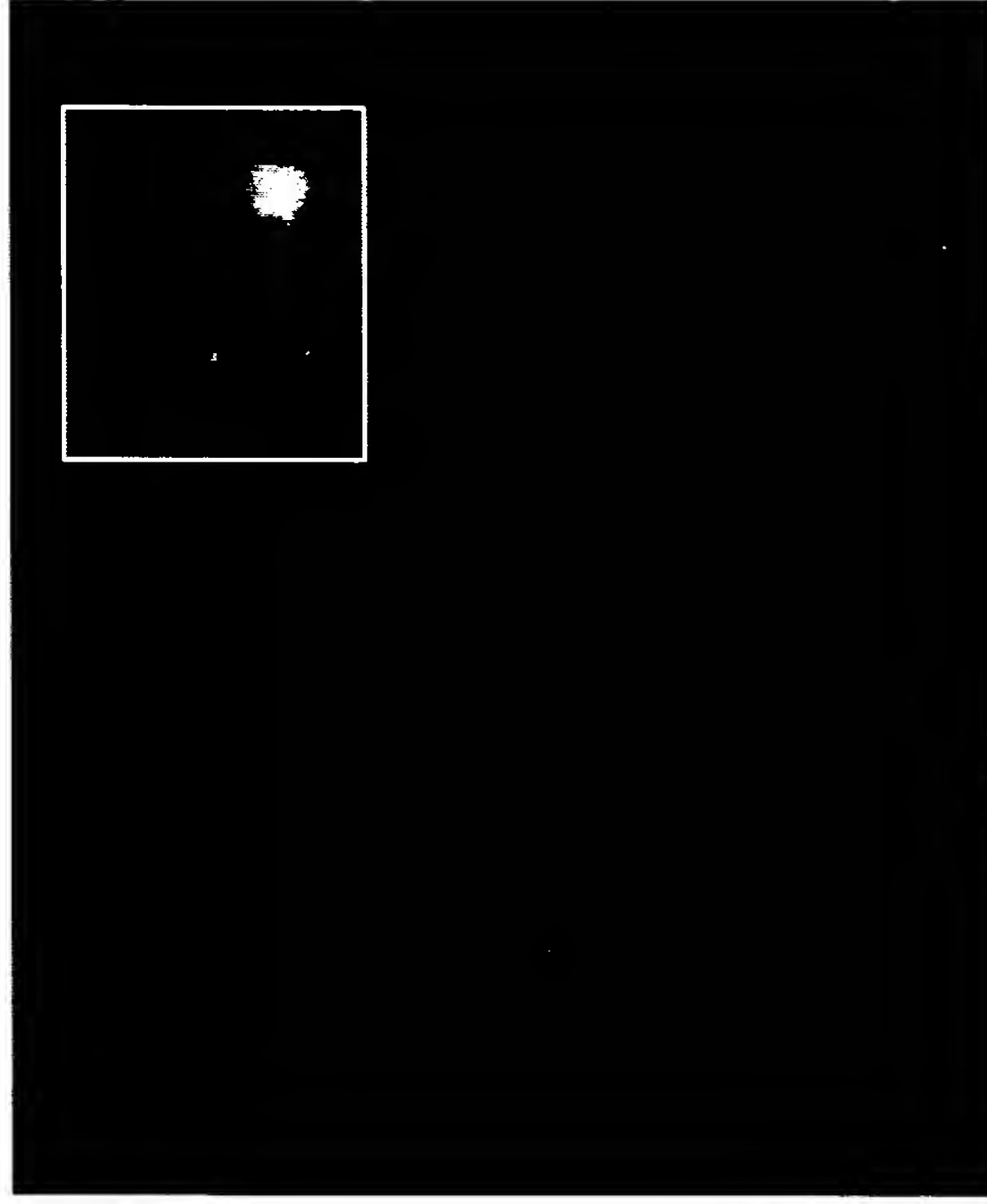
T96 (Magnification: 200x)

Figure 11

Visualizing apoptotic cancer cells in vivo



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100x

200x

PC-3 Dual colored human prostate cancer cells were injected in the foot pat of nude mice. The mice were sacrificed after 20 days. Apoptotic PC-3 dual colored cell was observed in the lymph node under fluorescence microscopy